

**CITY OF FORT SMITH SUPPLEMENTAL SPECIFICATION
SEWER STRUCTURES**

SECTION 703 of the Standard Specifications for Public Works Construction, February 2008 Edition, is hereby amended as follows:

703.02 MATERIALS

Item C. PRECAST MANHOLES is revised to read as follows:

- C. PRECAST MANHOLES. Precast reinforced concrete manholes shall be of the concentric cone type unless an eccentric cone is called for on the plans and shall conform to ASTM C478, latest revision. Joints and Neoprene O-ring gaskets shall conform to ASTM C443 - Joints for Circular Concrete Sewer and Culvert Pipe Using Rubber Gaskets. All pipe entrances through manhole wall shall utilize a flexible waterstop pipe connector conforming to ASTM C-923. The pipe connector shall be A-LOK as manufactured by A-LOK Products Inc., NPC Kor-N-Seal as manufactured by Trelleborg Pipe Seals Milford, Inc. or an approved equal.

Add the following sentence to Item E. CONCRETE ADJUSTING COLLARS:

The maximum allowable height adjustment using concrete adjustment collars shall be 24 inches.

703.04 CONSTRUCTION OF NEW MANHOLES

The second sentence of the second paragraph shall be revised to read as follows:

The inside diameter at the opening in the top of the cone section shall not be less than 24 inches.

The following sentence shall be added to the fourth paragraph:

Manhole penetrations for pipe stub-outs added in the field shall be cored.

The last sentence of the first paragraph of Item A. (2) PRECAST MANHOLES shall be revised to read as follows:

Flexible waterstop pipe connectors, as specified in paragraph 703.02 C, shall be installed at locations where sewer main pipe and sewer service pipe enter the manhole.

The third sentence of the second paragraph of Item B. (2) PRECAST MANHOLES shall be revised to read as follows:

Joint Sealing Material, as specified in paragraph 703.02 and having a minimum width of 12 inches, shall be wrapped around the outside of the manhole and centered over the joint.

The first paragraph of Item C. CAST IRON FRAME AND COVERS shall be revised to read as follows:

All manholes shall have cast iron frame and covers installed on the top of the manhole. Cast iron frames and covers shall be centered over the manhole cone section and shall be carefully leveled and placed to the elevations shown on the plans or to an elevation as directed by the Engineer. Concrete adjusting collars and mortar shall be used as required to set the top of the frame at the correct elevation and slope. The maximum allowable height adjustment using concrete collars shall be 24 inches. Unless otherwise directed by the Engineer, the top of the frame and cover shall conform to the following general requirements:

703.05 PIPE CONNECTIONS TO MANHOLES

The first sentence of Item A. NEW PRECAST MANHOLES shall be revised to read as follows:

Flexible waterstop pipe connectors, as specified in paragraph 703.02 C, shall be used for all pipe connections to the precast manhole.

The first sentence of Item B. NEW CAST-IN-PLACE MANHOLES shall be revised to read as follows:

All pipes extending through manhole walls shall have an elastomeric waterstop gasket, as specified in paragraph 703.02 C, installed around the pipe and centered in the manhole wall to insure a watertight connection.

The third sentence of Item C. PIPE CONNECTIONS TO EXISTING MANHOLES shall be revised to read as follows:

The work shall consist of coring the opening in the manhole wall, inserting the new pipe and elastomeric waterstop gasket to the elevation shown on the plans, constructing necessary drop connections, and remodeling manhole invert.

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The fifth sentence of Item C. PIPE CONNECTIONS TO EXISTING MANHOLES shall be revised to read as follows:

An elastomeric waterstop gasket shall be installed in the cored opening between the manhole and the pipes.

703.06 REPAIR AND RECONSTRUCTION OF EXISTING MANHOLES

The fifth sentence of Item B. REPAIRS TO EXISTING PIPE CONNECTIONS shall be revised to read as follows:

An elastomeric waterstop gasket, as specified in 703.02 C, shall be placed around the sewer pipe, and the hole and damaged invert repaired with Manhole Patching Material.

703.12 MEASUREMENT AND PAYMENT

Delete the following sentence from this subsection:

No separate payment will be made for removal of existing manholes.